

CLAIMS

1 1. A method of controlling access by a parent node to child nodes in a DOM
2 tree, comprising the steps of:
3 assigning a parent-node context-value to said parent node;
4 assigning a child-node context-value to each of said child nodes;
5 correlating one or more of said child nodes to said parent node; and
6 permitting access by said parent node only to said correlated child nodes.

1 2. A method as set forth in claim 1, wherein said correlating step comprises at
2 least the step of:
3 assigning the child-node context-value of said correlated child nodes to be the
4 same as the parent-node context value.

1 3. A method as set forth in claim 1, wherein said correlating step comprises at
2 least the step of:
3 assigning the child-node context-value of said correlated child nodes to inherit
4 the parent-node context value.

1 4. A method as set forth in claim 2, wherein each of said nodes is assigned a
2 name, and wherein each of the names assigned to said child nodes is encrypted at the

time it is assigned, and wherein said step of permitting access comprises at least the step of:

decrypting the names of each correlated child node.

5. A method as set forth in claim 3, wherein each of said nodes is assigned a name, and wherein each of the names assigned to said child nodes is encrypted at the time it is assigned, and wherein said step of permitting access comprises at least the step of:

decrypting the names of each correlated child node.

6. A method as set forth in claim 1, wherein each of said child nodes is assigned a child-node context-value which is unique with respect to the child-node context-value of all other child nodes, and wherein only one of said child nodes is correlated to said parent node, said correlating step comprising at least the step of:

assigning the child-node context-value of said correlated child-node to be the same as the parent-node context-value.

7. A system for controlling access by a parent node to child nodes in a DOM tree, comprising:

means for assigning a parent-node context-value to said parent node;

means for assigning a child-node context-value to each of said child nodes;

5 means for correlating one or more of said child nodes to said parent node; and
 6 means for permitting access by said parent node only to said correlated child
 7 nodes.

1 8. A system as set forth in claim 7, wherein said means for correlating
 2 comprises at least:
 3 means assigning the child-node context-value of said correlated child nodes to be
 4 the same as the parent-node context value.

1 9. A system as set forth in claim 7, wherein said means for correlating
 2 comprises at least:
 3 means for assigning the child-node context-value of said correlated child nodes
 4 to inherit the parent-node context value

1 10. A system as set forth in claim 8, wherein each of said nodes is assigned a
 2 name, and wherein each of the names assigned to said child nodes is encrypted at the
 3 time it is assigned, and wherein said means for permitting access comprises at least:
 4 means for decrypting the names of each correlated child node.

1 11. A system as set forth in claim 9, wherein each of said nodes is assigned a
2 name, and wherein each of the names assigned to said child nodes is encrypted at the
3 time it is assigned, and wherein said means for permitting access comprises at least:
4 means for decrypting the names of each correlated child node.

1 12. A system as set forth in claim 7, wherein each of said child nodes is
2 assigned a child-node context-value which is unique with respect to the child-node
3 context-value of all other child nodes, and wherein only one of said child nodes is
4 correlated to said parent node, said means for correlating comprising at least:
5 means for assigning the child-node context-value of said correlated child-node to
6 be the same as the parent-node context-value.

1 13. A computer program product for controlling access by a parent node to
2 child nodes in a DOM tree, comprising:

3 a computer-readable program code means embodied in a computer-readable
4 storage medium, said computer readable code means comprising:

5 computer-readable program code means for assigning a parent-node context-
6 value to said parent node;

7 computer-readable program code means for assigning a child-node context-value
8 to each of said child nodes;

computer-readable program code means for correlating one or more of said child nodes to said parent node; and

computer-readable program code means for permitting access by said parent node only to said correlated child nodes.

14. A computer program product as set forth in claim 13, wherein said computer-readable program means for correlating step comprises at least:

computer-readable program code means for assigning the child-node context-value of said correlated child nodes to be the same as the parent-node context value.

15. A computer program product as set forth in claim 13, wherein said computer-readable program code means for correlating comprises at least:

computer-readable program code means for assigning the child-node context-value of said correlated child nodes to inherit the parent-node context value.

16. A computer program product as set forth in claim 14, wherein each of said nodes is assigned a name, and wherein each of the names assigned to said child nodes is encrypted at the time it is assigned, and wherein said computer-readable program means for permitting access comprises at least:

computer-readable program means for decrypting the names of each correlated child node.

1 17. A computer program product as set forth in claim 15, wherein each of said
2 nodes is assigned a name, and wherein each of the names assigned to said child nodes is
3 encrypted at the time it is assigned, and wherein said computer-readable program
4 means for permitting access comprises at least:

5 computer-readable program means for decrypting the names of each correlated
6 child node.

1 18. A computer program product as set forth in claim 13, wherein each of said
2 child nodes is assigned a child-node context-value which is unique with respect to the
3 child-node context-value of all other child nodes, and wherein only one of said child
4 nodes is correlated to said parent node, said computer-readable program means for
5 correlating comprising at least:

6 computer-programmable program means for assigning the child-node context-
7 value of said correlated child-node to be the same as the parent-node context-value.